

ESHS 50-250/150/P26PSSA

Technical data

Company name
Contact
Phone number
e-mail address

Operating data

1	Pumpe type	Single head pump		Fluid	Water, pure	
2	No. of pumps		1	Operating temperature t A	°F	39.2
3	Nominal flow	US g.p.m.	0	Max / Min Operating Temperature mech. Seal	°F	120 / -10
4	Nominal head	ft	0	pH-value at t A		7
5	Static head	ft	0	Density at t A	lb/ft³	62.4
6	Inlet pressure	psi	0	Kin. viscosity at t A	ft²/s	1.689E-5
7	Environmental temperature	°F	68	Vapor pressure at t A	psi	14.5
8	Available system NPSH	ft	0	Altitude		0

Pump data

9	Lubrication	Standard, Grease lubrication [Std]				
10	Execution					
11	Design	Horizontal		Impeller Ø	Max.	inch 8 3/8
12	Operating speed	3500 rpm	Stages 1		designed	inch 7 7/16
13	Suction nozzle	DN 65 /	PN 16 /		Min.	inch 7 7/16
14	Discharge nozzle	DN 50 /	PN 16 /	Flow	Nominal US g.p.m.	
15	Max. casing pressure	psi	174		Max-	US g.p.m. 343.4
16	Max. working pressure	psi	97.8		Min-	US g.p.m. 158.5
17	Impeller type	Radial impeller		Head	Nominal	ft
18	Head H(Q=0)	ft	230		at Qmax	ft 130.1
19	Max. shaft power	hp	20.1		at Qmin	ft 215.2
20	Pump weight	kg		Shaft power	hp	
21	Total weight	lb	326.3	Efficiency	%	
				NPSH 3%	ft	

Materials

22	Pump			Shaft Seal		
23	Pump body	Stainless steel / AISI 316L		Single mechanical seal, without shaft sleeve		
24	Impeller	Stainless steel / AISI 316L		Uniten 3K	VBVGG	
25	SEAL HOUSING	Stainless steel / AISI 316L		Mechanical seal diameter	1 1/8 inch	
26	Wear ring	Stainless steel / AISI 316L		1. Rotating ring	Ceramic	
27	Counterwear ring	Stainless steel / AISI 316L		2. Stationary ring	Carbon graphite resin impregnated	
28	Rigid shaft coupling	Stainless steel / AISI 316L		3. Secondary seal	Fluorine rubber (FKM)	
29	Impeller locknut and washer	Stainless steel / AISI 316		4. Springs	CrNiMo - Steel	
30	Tab	Stainless steel / AISI 316L		5. Others	CrNiMo - Steel	
31	Fill/drain plugs	Stainless steel / AISI 316		Gaskets of the pump	Fluorine rubber (FKM)	
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Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara PLM			
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency			
44	Type	PLM 160 B35 15 kW			
45	Rated power	20.115 hp	Rated current	47.6 A	
46	Nominal speed	3540 rpm	Rated voltage	220 V	
47	Frame size	160	Service factor	1	
48	Weight	lb 231.5	Degree of protection	IP55	

Remarks

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Project	Xylect-20183008	Created by		Last update	1/12/2025
Block	ESHS 50-250/220/P26PSSA	Created on	1/12/2025		

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Performance curve

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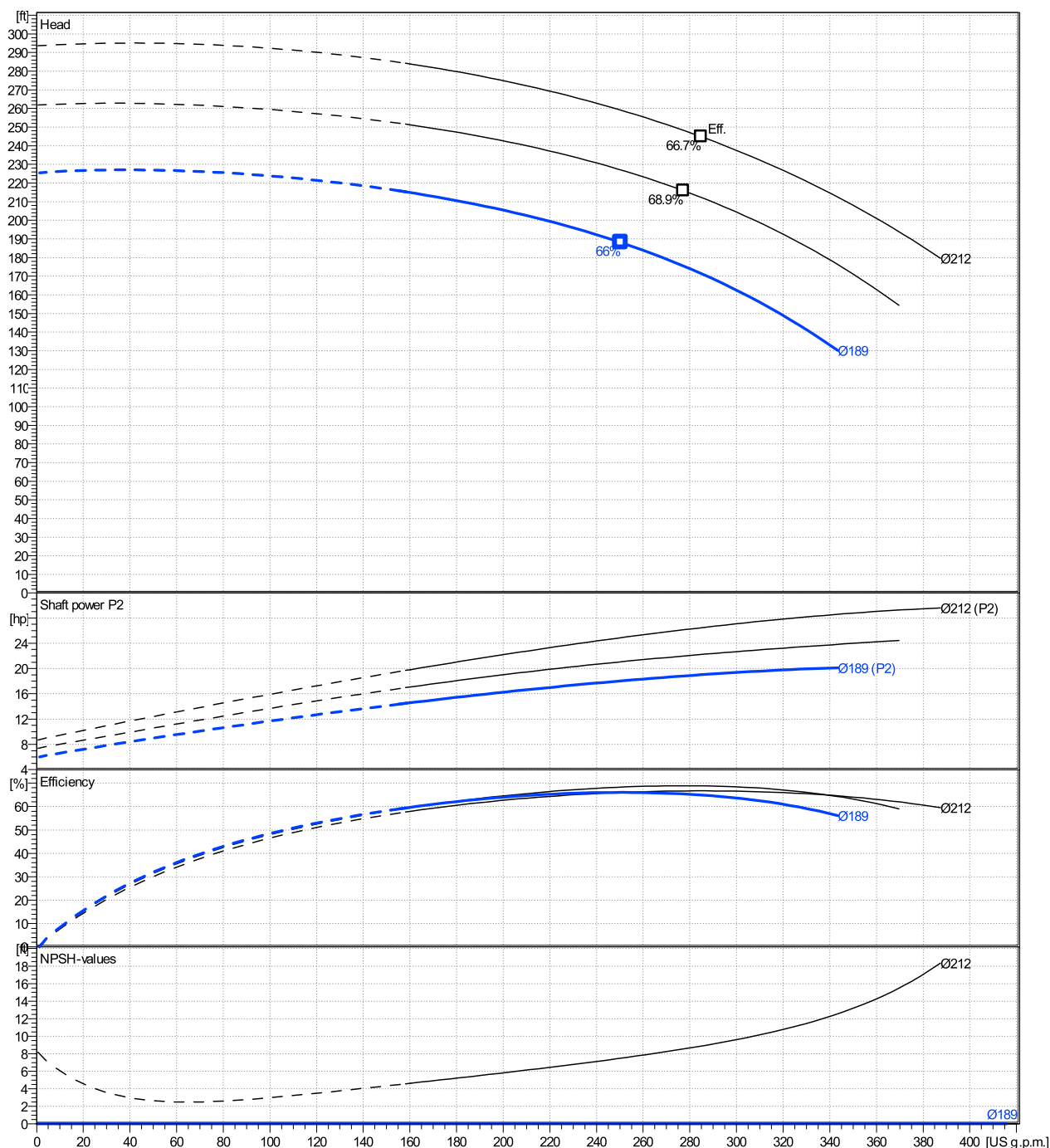
	Ø mm	Pump capacity Operating range Min. Max. Max. US g.p.m. US g.p.m. US g.p.m.			Pump head H(Q=0) η ft Max. ft		Shaft power P2 P2(Q=0) Max. η hp hp Max. hp			Frequency Hz 60	
		Min.	Max.	Max.	H(Q=0)	η	P2(Q=0)	Max.	η	Operating speed rpm	3500
actual	7 7/16	159	343	250	225	188		20.1	18	Nominal flow	US g.p.m. 0
Min.	0	/	/	250	225	188		/	18	Nominal head	ft 0
Max.	8 3/8	/	/	285	294	245		/	26.4	Inlet pressure	psi 0
										Static head	ft 0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water, pure [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



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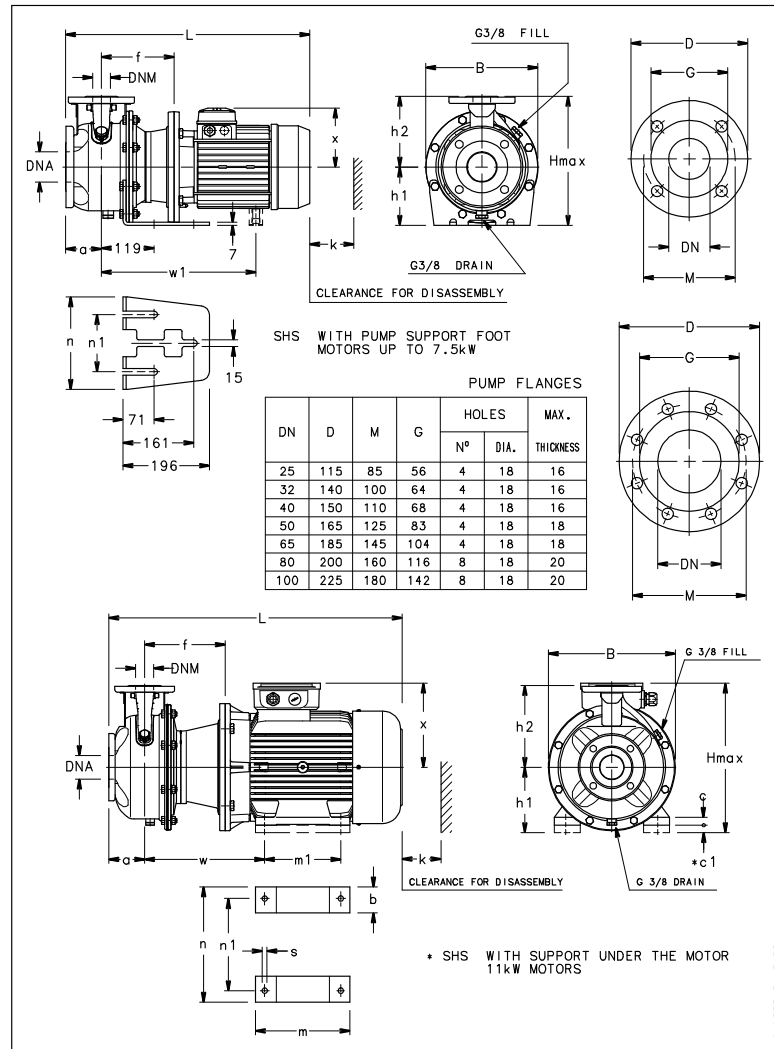
Dimensions

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Rigid coupling

PLM 160 B35 15 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[inch]	
a	3 ¹⁵ / ₁₆		
B	13 ³ / ₄		
b	1 ¹⁵ / ₁₆		
c	3 ³ / ₁₆		
DNA	2 ⁹ / ₁₆		
DNM	1 ¹⁵ / ₁₆		
f	8 ³ / ₄		
h1	7 ¹ / ₁₆		
h2	8 ⁷ / ₈		
Hmax	16 ⁹ / ₁₆		
k	4 ³ / ₁₆		
L	32 ¹ / ₈		
m	11 ¹⁵ / ₁₆		
m1	8 ¹ / ₄		
n	11 ¹⁵ / ₁₆		
n1	10		
s	9 ⁹ / ₁₆		
w	13		
x	9 ⁷ / ₁₆		

Weight	
Total weight	148 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 65		DN 50	
PN 16		PN 16	
EN1092-1		EN1092-1	
D	7 ⁵ / ₁₆	D	6 ¹ / ₂
Dia. Holes	1 ¹¹ / ₁₆	Dia. Holes	1 ¹⁵ / ₁₆
DN	2 ⁹ / ₁₆	DN	1 ¹⁵ / ₁₆
G	4 ¹ / ₈	G	3 ¹ / ₄
M	5 ¹¹ / ₁₆	M	4 ¹⁵ / ₁₆
Max thickness	1 ¹⁵ / ₁₆	Max thickness	1 ¹⁵ / ₁₆

Dimensions and weight without obligation

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